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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/786,771 02/25/2004		02/25/2004	Stephan R. Yhann	07844-634001	2862	
21876	7590	09/14/2006		EXAMINER		
FISH & RI P.O. Box 10		SON P.C.		WASHBURN	, DANIEL C	
MINNEAPOLIS, MN 55440-1022				ART UNIT	PAPER NUMBER	
				2628		
	•			DATE MAILED: 09/14/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		Application No.					
		10/786,771	YHANN ET AL.				
		Examiner	Art Unit				
		Dan Washbum	2628				
The M. Period for Reply	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHICHEVER - Extensions of time after SIX (6) MO - If NO period for Inc Failure to reply we Any reply received	ED STATUTORY PERIOD FOR REPLY IS LONGER, FROM THE MAILING DATE of the available under the provisions of 37 CFR 1.13 NTHS from the mailing date of this communication. The reply is specified above, the maximum statutory period work in the set or extended period for reply will, by statute, and by the Office later than three months after the mailing rm adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE!	l. the mailing date of this communication. (35 U.S.C. § 133).				
Status							
1)⊠ Respon	sive to communication(s) filed on <u>04 Au</u>	ugust 2006.					
2a) This ac	This action is FINAL . 2b)⊠ This action is non-final.						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of C	laims						
4)⊠ Claim(s	4)⊠ Claim(s) <u>1-28</u> is/are pending in the application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s	5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-28</u> is/are rejected.						
•	s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Pape	ers						
9)∐ The spe	cification is objected to by the Examine	P r .					
10)⊠ The drawing(s) filed on <u>25 February 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicar	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35	5 U.S.C. § 119						
, 	ledgment is made of a claim for foreign b) Some * c) None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).				
1. 🔲 C							
2. 🔲 0	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
* See the a	attached detailed Office action for a list	or the certified copies not receive	ea.				
Attachment(s)							
	rences Cited (PTO-892) sperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
	closure Statement(s) (PTO/SB/08)	5) Notice of Informal P 6) Other:					

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-26 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-28 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 1-28 read on an abstract idea, as initially defined in claims 1 and 22. For example, claims 1 and 22 describe receiving an original graphical element, blending this graphical element with another graphical element to produce a transformed graphical element, storing information about the original type of the original graphical element, and processing the transformed graphical element using the stored information.

Processing the transformed graphical element is not considered transforming an article or physical object to a different state or thing, nor is it considered a useful, concrete, and tangible result. Therefore the claims are directed solely at an abstract idea.

For claims including such excluded subject matter to be eligible, the claim must be for a <u>practical application</u> of the abstract idea, law of nature, or natural phenomenon. Diehr, 450 U.S. at 187, 209 USPQ at 8 ("<u>application</u> of a law of nature or mathematical formula to a known structure or process may well be deserving of patent protection.");

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Benson, 409 U.S. at 71, 175 USPQ at 676 (rejecting formula claim because it "has no substantial practical application").

To satisfy section 101 requirements, the claim must be for a practical application of the § 101 judicial exception, which can be identified in various ways:

- The claimed invention "transforms" an article or physical object to a different state or thing.
- The claimed invention otherwise produces a useful, concrete and tangible result.

Claims 22-26 and 28 are also directed to non-statutory subject matter because page 18 lines 9-20 of the applicant's specification describes that the invention can be implemented as a computer program product, i.e., a computer program tangibly embodied in an information carrier, e.g., in a machine-readable storage device or in a propagated signal, for execution by, or to control the operation of, data processing apparatus. Transmission media, such as the applicant's described propagated signal, are not considered to fall into one of the four statutory classes of invention, thus the computer program product claims are considered non-statutory.

Claims that recite nothing but the physical characteristics of a form of energy, such as a frequency, voltage, or the strength of a magnetic field, define energy or magnetism, per se, and as such are nonstatutory natural phenomena. O'Reilly, 56 U.S. (15 How.) at 112-14. Moreover, it does not appear that a claim reciting a signal encoded with functional descriptive material falls within any of the categories of patentable subject matter set forth in § 101.

First, a claimed signal is clearly not a "process" under § 101 because it is not a series of steps. The other three § 101 classes of machine, compositions of matter and manufactures "relate to structural entities and can be grouped as 'product' claims in order to contrast them with process claims." 1 D. Chisum, Patents § 1.02 (1994). The three product classes have traditionally required physical structure or material.

"The term machine includes every mechanical device or combination of mechanical device or combination of mechanical powers and devices to perform some function and produce a certain effect or result." Corning v. Burden, 56 U.S. (15 How.) 252, 267 (1854). A modern definition of machine would no doubt include electronic devices which perform functions. Indeed, devices such as flip-flops and computers are referred to in computer science as sequential machines. A claimed signal has no physical structure, does not itself perform any useful, concrete and tangible result and, thus, does not fit within the definition of a machine

A "composition of matter" "covers all compositions of two or more substances and includes all composite articles, whether they be results of chemical union, or of mechanical mixture, or whether they be gases, fluids, powders or solids." Shell Development Co. v. Watson, 149 F. Supp. 279, 280, 113 USPQ 265, 266 (D.D.C. 1957), aff'd, 252 F.2d 861, 116 USPQ 428 (D.C. Cir. 1958). A claimed signal is not matter, but a form of energy, and therefore is not a composition of matter.

The Supreme Court has read the term "manufacture" in accordance with its dictionary definition to mean "the production of articles for use from raw or prepared materials by giving to these materials new forms, qualities, properties, or combinations,

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whether by hand-labor or by machinery." Diamond v. Chakrabarty, 447 U.S. 303, 308, 206 USPQ 193, 196-97 (1980) (quoting American Fruit Growers, Inc. v. Brogdex Co., 283 U.S. 1, 11, 8 USPQ 131, 133 (1931), which, in turn, quotes the Century Dictionary). Other courts have applied similar definitions. See American Disappearing Bed Co. v. Arnaelsteen, 182 F. 324, 325 (9th Cir. 1910), cert. denied, 220 U.S. 622 (1911). These definitions require physical substance, which a claimed signal does not have. Congress can be presumed to be aware of an administrative or judicial interpretation of a statute and to adopt that interpretation when it re-enacts a statute without change. Lorillard v. Pons, 434 U.S. 575, 580 (1978). Thus, Congress must be presumed to have been aware of the interpretation of manufacture in American Fruit Growers when it passed the 1952 Patent Act.

A manufacture is also defined as the residual class of product. 1 Chisum, § 1.02[3] (citing W. Robinson, The Law of Patents for Useful Inventions 270 (1890)).

A product is a tangible physical article or object, some form of matter, which a signal is not. That the other two product classes, machine and composition of matter, require physical matter is evidence that a manufacture was also intended to require physical matter. A signal, a form of energy, does not fall within either of the two definitions of manufacture. Thus, a signal does not fall within one of the four statutory classes of § 101.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dan Washburn whose telephone number is (571) 272-5551. The examiner can normally be reached on Monday through Friday 8:30 a.m. to 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ulka Chauhan can be reached on (571) 272-7782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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9/10/06

SUPERVISORY PATENT EXAMINER